### Series VQC4000

**Base Mounted Plug-in Unit**

#### How to Order Manifold

| VV5QC 4 | 1 | 08 | 02 | TD0 |
| VV5QC 4 | 1 | 16 | 03 | SDQW |

**Serial Kit for CC-LINK**
- 1 to 8 stations
- Serial unit: EX500
- IP67 compliant

**Serial Kit for DeviceNet**
- 1 to 12 stations
- Serial unit: EX250
- IP67 compliant

**Serial Kit for PROFIBUS-DP**
- 1 to 4 stations
- Serial unit: EX240
- IP67 compliant

**Serial Kit for CANopen**
- 1 to 8 stations
- Serial unit: EX126
- IP67 compliant

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**Kit Designation/Electrical Entry/Cable Length**

**S Kit** (Decentralized wiring type serial kit)
- Serial unit: EX500
- IP67 compliant

**S Kit** (I/O serial kit)
- Serial unit: EX250
- 1 to 12 stations (24 stations)

**S Kit** (I/O serial transmission kit)
- Serial unit: EX240
- 1 to 12 stations (16 stations)

**S Kit** (Serial output kit)
- Serial unit: EX126
- 1 to 8 stations (16 stations)

---

**Option**

<table>
<thead>
<tr>
<th>Kit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>None</td>
</tr>
<tr>
<td>L</td>
<td>With name plate (available for T kit only)</td>
</tr>
<tr>
<td>M</td>
<td>Special wiring specifications (except for double wiring)</td>
</tr>
</tbody>
</table>

**Input block COM.**
- (Fill out for I/O unit only)
  - Nil: Without SI unit input block (SD0(W))
  - P: PNP (+) or without SI unit input block
  - N: NPN (–)

**Input block (Fill out for I/O unit only)**
- Nil: Without SI unit input block
- 0: Without input block
- 1: With 1 input block
- 2: With 8 input blocks

**Input block type (Fill out for I/O unit only)**
- Nil: Without input block
- 0: M12, 8 inputs (EX240)
- 1: M12, 2 inputs (EX250)
- 2: M12, 4 inputs (EX250)
- 3: M8, 4 inputs (EX250)

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**Note**

1. Indicate the size in the specification order sheet in the case of "CM".
2. Symbol for inch sizes are as follows:
   - N7: ø1/4”
   - N9: ø5/16”
   - N11: ø3/8”
   - NM: Mixed

---

**Kit Designation/Electrical Entry/Cable Length**

**S Kit** (Decentralized wiring type serial kit)
- Serial unit: EX500
- IP67 compliant

**S Kit** (I/O serial kit)
- Serial unit: EX250
- 1 to 12 stations (24 stations)

**S Kit** (I/O serial transmission kit)
- Serial unit: EX240
- 1 to 12 stations (16 stations)

**S Kit** (Serial output kit)
- Serial unit: EX126
- 1 to 8 stations (16 stations)
## How to Order Valves

### VQC 4 1 0 0 5

#### Type of actuation

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2 position single (A)(B)</td>
</tr>
<tr>
<td>2</td>
<td>2 position double (metal) (A)(B)</td>
</tr>
<tr>
<td>3</td>
<td>3 position closed center (A)(B)</td>
</tr>
<tr>
<td>4</td>
<td>3 position exhaust center (A)(B)</td>
</tr>
<tr>
<td>5</td>
<td>3 position pressure center (A)(B)</td>
</tr>
<tr>
<td>6</td>
<td>3 position perfect (A)(B)</td>
</tr>
</tbody>
</table>

#### Function

- **Nil**: Standard type (1 W)
- **R**: External pilot
- **Y**: Low wattage type (0.5 W)

#### Light/Surge voltage suppressor

- **Nil**: Non-locking push type
- **E**: Without light, with surge voltage suppressor

#### Seal type

- **0**: Metal seal
- **1**: Rubber seal

### Kit Designation/Electrical Entry/Cable Length

#### F Kit (D-sub connector kit)

- **FD0**: D-sub connector kit (25P) without cable
- **FD1**: D-sub connector kit (25P) with 1.5 m cable
- **FD2**: D-sub connector kit (25P) with 3.0 m cable
- **FD3**: D-sub connector kit (25P) with 5.0 m cable

#### M Kit (Multiple connector kit)

- **MD0**: Multiple connector kit (26P) without cable
- **MD1**: Multiple connector kit (26P) with 1.5 m cable
- **MD2**: Multiple connector kit (26P) with 3.0 m cable
- **MD3**: Multiple connector kit (26P) with 5.0 m cable

#### T Kit (Terminal block box kit)

- **TD0**: Terminal block box kit (1 to 10 stations)

#### L Kit (Lead wire kit)

- **LD0**: Lead wire kit 0.6 m lead wire
- **LD1**: Lead wire kit 1.5 m lead wire
- **LD2**: Lead wire kit 3.0 m lead wire

#### P Kit (Flat ribbon cable kit)

- **PD0**: Flat ribbon cable kit (20P) without cable
- **PD1**: Flat ribbon cable kit (20P) with 1.5 m cable
- **PD2**: Flat ribbon cable kit (20P) with 3.0 m cable
- **PD3**: Flat ribbon cable kit (20P) with 5.0 m cable

#### Note

- **S** kit is only available for 24 VDC.
- When specifying more than one option, enter symbols in alphabetical order.
- For a 20P flat ribbon cable, the cable assembly must be ordered separately.

### Special Note

- **P** kit: when using the flat ribbon cable kit (20P), order cable assemblies separately.

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**Note:**

- **IP67 compliant**
- **IP40 compliant**

Manifold Option

- Blanking plate assembly
  VVQ4000-10A-1

- Individual SUP spacer
  VVQ4000-P-1

- Individual EXH spacer
  VVQ4000-R-1

- SUP/EXH block plate
  VVQ4000-16A

- Throttle valve spacer
  VVQ4000-20A-1

- Residual pressure release valve
  VVQ4000-25A-1 (Note 1)

- SUP stop valve spacer
  VVQ4000-37A-1

- Interface regulator
  ARBQ4000-00-1

Note 1) Perfect spacers with residual pressure release valve cannot be combined with external pilot specifications.
### JIS Symbol

- 2 position single
- 2 position double (metal)
- 2 position double (rubber)
- 3 position closed center
- 3 position exhaust center
- 3 position pressure center
- 3 position exhaust center with pressure release valves
- 4 position dual 3 port valve (A)
- 4 position dual 3 port valve (B)
- 4 position dual 3 port valve (C)

### Series VQC

#### Base Mounted Plug-in Unit

#### Model

<table>
<thead>
<tr>
<th>Series</th>
<th>No. of solenoids</th>
<th>Model</th>
<th>Flow characteristics</th>
<th>Response time (ms)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VQC1000</td>
<td>Single 2 position</td>
<td>Metal seal VQC1100</td>
<td>0.70</td>
<td>0.15</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>Rubber seal VQC1101</td>
<td>0.85</td>
<td>0.20</td>
<td>0.21</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>Double 2 position</td>
<td>Metal seal VQC1200</td>
<td>0.70</td>
<td>0.15</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>Rubber seal VQC1201</td>
<td>0.85</td>
<td>0.20</td>
<td>0.21</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>Closed center 3 position</td>
<td>Metal seal VQC1300</td>
<td>0.68</td>
<td>0.15</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>Exhaust center 3 position</td>
<td>Metal seal VQC1400</td>
<td>0.68</td>
<td>0.15</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>Pressure center 3 position</td>
<td>Metal seal VQC1500</td>
<td>0.70</td>
<td>0.15</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>Rubber seal VQC1501</td>
<td>0.85</td>
<td>0.20</td>
<td>0.21</td>
<td>0.65</td>
</tr>
<tr>
<td>VQC2000</td>
<td>Single 2 position</td>
<td>Metal seal VQC2100</td>
<td>2.0</td>
<td>0.15</td>
<td>0.46</td>
</tr>
<tr>
<td></td>
<td>Rubber seal VQC2101</td>
<td>2.2</td>
<td>0.28</td>
<td>0.55</td>
<td>3.2</td>
</tr>
<tr>
<td></td>
<td>Double 2 position</td>
<td>Metal seal VQC2200</td>
<td>2.0</td>
<td>0.15</td>
<td>0.46</td>
</tr>
<tr>
<td></td>
<td>Rubber seal VQC2201</td>
<td>2.2</td>
<td>0.28</td>
<td>0.55</td>
<td>3.2</td>
</tr>
<tr>
<td></td>
<td>Closed center 3 position</td>
<td>Metal seal VQC2300</td>
<td>2.0</td>
<td>0.15</td>
<td>0.46</td>
</tr>
<tr>
<td></td>
<td>Exhaust center 3 position</td>
<td>Metal seal VQC2400</td>
<td>2.0</td>
<td>0.15</td>
<td>0.46</td>
</tr>
<tr>
<td></td>
<td>Pressure center 3 position</td>
<td>Metal seal VQC2500</td>
<td>2.4</td>
<td>0.17</td>
<td>0.57</td>
</tr>
<tr>
<td></td>
<td>Rubber seal VQC2501</td>
<td>3.2</td>
<td>0.28</td>
<td>0.80</td>
<td>2.2</td>
</tr>
<tr>
<td>VQC4000</td>
<td>Single 2 position</td>
<td>Metal seal VQC4100</td>
<td>6.2</td>
<td>0.19</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Rubber seal VQC4101</td>
<td>7.2</td>
<td>0.43</td>
<td>2.1</td>
<td>7.3</td>
</tr>
<tr>
<td></td>
<td>Double 2 position</td>
<td>Metal seal VQC4200</td>
<td>6.2</td>
<td>0.19</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Rubber seal VQC4201</td>
<td>7.2</td>
<td>0.43</td>
<td>2.1</td>
<td>7.3</td>
</tr>
<tr>
<td></td>
<td>Closed center 3 position</td>
<td>Metal seal VQC4300</td>
<td>5.9</td>
<td>0.23</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Exhaust center 3 position</td>
<td>Rubber seal VQC4301</td>
<td>7.0</td>
<td>0.34</td>
<td>1.9</td>
</tr>
<tr>
<td></td>
<td>Pressure center 3 position</td>
<td>Metal seal VQC4500</td>
<td>6.2</td>
<td>0.18</td>
<td>1.9</td>
</tr>
<tr>
<td></td>
<td>Rubber seal VQC4501</td>
<td>7.0</td>
<td>0.38</td>
<td>1.9</td>
<td>7.1</td>
</tr>
<tr>
<td>Perfect</td>
<td>Metal seal VQC4600</td>
<td>2.7</td>
<td>—</td>
<td>—</td>
<td>3.7</td>
</tr>
<tr>
<td></td>
<td>Rubber seal VQC4601</td>
<td>2.8</td>
<td>—</td>
<td>—</td>
<td>3.9</td>
</tr>
</tbody>
</table>

**Note 1)** Values represented in this column are in the following conditions:
- VQC1000: Cylinder port size C8 without a back pressure check valve
- VQC2000: Cylinder port size C8 without a back pressure check valve
- VQC4000: Cylinder port size Rc3/8

**Note 2)** Values represented in this column are based on JIS B 8375-1981 (operating with clean air and a supply pressure of 0.5 MPa. Equipped with light/surge voltage suppressor. Values vary depending on the pressure as well as the air quality.) Values for double types are when the switch is ON.
### Standard Specifications

#### Valve Configuration

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Metal seal</th>
<th>Rubber seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. operating pressure Single</td>
<td>0.7 MPa (High pressure type: 1.0 MPa) (Note 4)</td>
<td>0.1 MPa</td>
</tr>
<tr>
<td>Min. operating pressure Single</td>
<td>0.1 MPa</td>
<td>0.15 MPa</td>
</tr>
<tr>
<td>3 position</td>
<td>0.1 MPa</td>
<td>0.15 MPa</td>
</tr>
<tr>
<td>4 position</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. operating pressure (Note 3) Double</td>
<td>1.0 MPa (0.7 MPa)</td>
<td>0.15 MPa</td>
</tr>
<tr>
<td>Min. operating pressure Single</td>
<td>0.15 MPa</td>
<td>0.15 MPa</td>
</tr>
<tr>
<td>3 position</td>
<td>0.15 MPa</td>
<td>0.15 MPa</td>
</tr>
<tr>
<td>Proof pressure</td>
<td>1.5 MPa</td>
<td></td>
</tr>
<tr>
<td>Ambient and fluid temperature</td>
<td>–10 to 50°C (Note 1)</td>
<td></td>
</tr>
<tr>
<td>Lubrication</td>
<td>Not required</td>
<td></td>
</tr>
<tr>
<td>Manual override</td>
<td>Push type/Locking type (tool required)/Locking type (Manual override) (Note 5)/Slide locking type (Note 5)</td>
<td></td>
</tr>
<tr>
<td>Impact resistance/Vibration resistance</td>
<td>150/30 m/s² (Note 2)</td>
<td></td>
</tr>
<tr>
<td>Enclosure</td>
<td>Dust proof (IP67 compliant)</td>
<td></td>
</tr>
<tr>
<td>Rated coil voltage</td>
<td>24 VDC</td>
<td></td>
</tr>
<tr>
<td>Allowable voltage fluctuation</td>
<td>±10% of rated voltage</td>
<td></td>
</tr>
<tr>
<td>Coil insulation type</td>
<td>Equivalent to B type</td>
<td></td>
</tr>
<tr>
<td>Power consumption (Current)</td>
<td>1 W DC (42 mA), 0.5 W DC (21 mA)</td>
<td></td>
</tr>
</tbody>
</table>

#### Piping specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Base model</th>
<th>Connection type</th>
<th>Port direction</th>
<th>Port size (Note 1)</th>
<th>Applicable solenoid valves</th>
<th>Applicable solenoid valves</th>
<th>5 station weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VQC1000</td>
<td>VV5QC11-</td>
<td></td>
<td>Side</td>
<td>C8 (for ø8)</td>
<td>F, L and M (1 to 12 stations)</td>
<td>VQC1000</td>
<td>628 (Single)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>C9 (for ø9)</td>
<td>L kit (1 to 12 stations)</td>
<td>VQC1000</td>
<td>759 (Double, 3P)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>C10 (for ø10)</td>
<td>S kit (1 to 8 stations: EX500, EX520, EX260)</td>
<td>VQC1000</td>
<td>1051 (Single)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>C12 (for ø12)</td>
<td>T kit (1 to 10 stations: EX126)</td>
<td>VQC1000</td>
<td>1144 (Double, 3P)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>VQC1000</td>
<td>4150 (Single)</td>
</tr>
</tbody>
</table>

Note 1) Use dry air to prevent condensation at low temperatures.

Note 2) Impact resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed one time each in the axial and right angle directions of the main valve and armature, for both energized and de-energized states.

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000Hz. Test was performed in the axial and right angle directions of the main valve and armature for both energized and de-energized states.

Note 3) Values in ( ) are for the low wattage (0.5 W) specification.

Note 4) Metal seal type only.


### Manifold Specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Base model</th>
<th>Connection type</th>
<th>Port direction</th>
<th>Port size (Note 1)</th>
<th>Applicable solenoid valves</th>
<th>Applicable solenoid valves</th>
<th>5 station weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VQC1000</td>
<td>VV5QC11-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VQC2000</td>
<td>VV5QC21-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VQC4000</td>
<td>VV5QC41-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note 1) One-touch fittings in inch sizes are also available.

Note 2) An optional specification for special wiring is available to increase the maximum number of stations.
Series VQC

VQC1000/2000/4000 Kit (Serial transmission kit) Decentralized Serial Wiring

Gateway type serial transmission system
• Since wiring is "prepackaged" into one multi-connector type cable, wiring work is not only made easier, but much more accurate.
S kit can be used by connecting to gateway unit.

Specifications

How to Order
EX500 — G DN1

Communication protocol

DN1 DeviceNet AB1-X1 Remote I/O (RIO)
PR1A PROFIBUS-DP MJ1 CC-LINK

Input Block

How to Order Input Manifold
EEX500 — IB1 E8

Input Unit Specifications

Connection block Current source type input block (PNP input block) or Current sink type input block (NPN input block)
Communication connector M12 connector (8 pins, plug)
Number of connection blocks Maximum 8 blocks
Block supply voltage 24 VDC
Block supply current 0.65 A maximum
Current consumption 100 mA or less (at rated voltage)
Short circuit protection Operates at 1A Typ. (power supply cut)
Enclosure IP65
Weight (g) 100 (input unit + end block)

Input Block Specifications

Applicable sensor
Current source type (PNP output) or Current sink type (NPN output)
Sensor connector M8 connector (3 pins) or, M12 connector (4 pins)
Number of inputs 2 inputs/8 inputs (M8 only)
Rated voltage 24 VDC
Indication Green LED
Insulation None
Sensor supply current Maximum 30 mA/Sensor
Enclosure IP65
Weight (g) [For M8: 23] [For M12: 40] (8 point integrated type, for M8: 55)
SI Unit

How to Order

EX500 — Q001

Applicable GW unit

| Nil | DeviceNet | PROFINET-DP | -X1 | Remote I/O (RIO) |

Specifications

| Connection block | Solenoid valve (single, double)  
Relay output module (1 output, 2 outputs) |
| Communication connector | M12 connector (8 pins, plug, socket) |
| Number of connection block stations | Double solenoid valve  
Relay output module (2 points): Maximum 8 stations  
Single solenoid valve  
Relay output module (1 point): Maximum 16 stations |
| Block supply voltage | 24 VDC |
| Block supply current | 0.65 A maximum |
| Current consumption | 100 mA or less (at rated voltage) |
| Weight (g) | 115 |

Cable

How to Order Cable with M12 Connector

EX500 — AC 030 — SSSP

How to Order Power Cable with Connector

EX500 — AP 050 — S

Connector specifications

EX500 — AP 050 — S

Cable core wire colors

<table>
<thead>
<tr>
<th>Terminal no.</th>
<th>Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>White: 24 VDC +10%–5% (Solenoid valve power supply)</td>
</tr>
<tr>
<td>2</td>
<td>Saddle: 24 VDC</td>
</tr>
<tr>
<td>3</td>
<td>Blue: 0 V (Input and control power supply)</td>
</tr>
<tr>
<td>4</td>
<td>Grey: PE</td>
</tr>
</tbody>
</table>

Socket connector pin arrangement

Plug connector pin arrangement

Terminal no.  
1 2 3 4 5 6 7 8

Connections

Terminal no.  
1 2 3 4 5 6 7 8

Connections
**VV5QC41**

SA1 Kit (Serial transmission kit: EX500)

---

**Communication connector C2**
(M12 male thread)

- 2-Rc 1/8
- Pilot exhaust part

2n-Rc 1/4, 3/8, C8, C10, C12 <4(A), 2(B) port>

- Rc 3/8: 3/8" Female thread
- C8 : ø8 One-touch fitting
- C10 : ø10 One-touch fitting
- C12 : ø12 One-touch fitting

---

**Communication connector C1**
(M12 female thread)

- 2-Rc 3/4
- S(R) port

2-Rc 1/2
- 1(P) port

---

**Formulas**

\[ L_1 = 25n + 106 \] (Maximum 16 single wiring stations)

- \( n \): Stations

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**Series VQC**

---

**Base Mounted**

---

**Series VQC**

---

**VV5QC41**

SA1 Kit (Serial transmission kit: EX500)

---

**Communication connector C1**
(M12 female thread)

- 2-Rc 3/4
- S(R) port

2-Rc 1/2
- 1(P) port

---

**Communication connector C2**
(M12 male thread)

- 2-Rc 1/8
- External pilot port

2n-Rc 1/4, 3/8, C8, C10, C12 <4(A), 2(B) port>

- Rc 3/8: 3/8" Female thread
- C8 : ø8 One-touch fitting
- C10 : ø10 One-touch fitting
- C12 : ø12 One-touch fitting

---

**Formulas**

\[ L_1 = 25n + 106 \] (Maximum 16 single wiring stations)

- \( n \): Stations

---

**Series VQC**

---

**Base Mounted**

---

**Series VQC**

---

**VV5QC41**

SA1 Kit (Serial transmission kit: EX500)

---

**Communication connector C1**
(M12 female thread)

- 2-Rc 3/4
- S(R) port

2-Rc 1/2
- 1(P) port

---

**Communication connector C2**
(M12 male thread)

- 2-Rc 1/8
- Pilot exhaust part

2n-Rc 1/4, 3/8, C8, C10, C12 <4(A), 2(B) port>

- Rc 3/8: 3/8" Female thread
- C8 : ø8 One-touch fitting
- C10 : ø10 One-touch fitting
- C12 : ø12 One-touch fitting

---

**Formulas**

\[ L_1 = 25n + 106 \] (Maximum 16 single wiring stations)

- \( n \): Stations

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**Series VQC**

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**Base Mounted**

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**Series VQC**

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**VV5QC41**

SA1 Kit (Serial transmission kit: EX500)

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**Communication connector C1**
(M12 female thread)

- 2-Rc 3/4
- S(R) port

2-Rc 1/2
- 1(P) port

---

**Communication connector C2**
(M12 male thread)

- 2-Rc 1/8
- External pilot port

2n-Rc 1/4, 3/8, C8, C10, C12 <4(A), 2(B) port>

- Rc 3/8: 3/8" Female thread
- C8 : ø8 One-touch fitting
- C10 : ø10 One-touch fitting
- C12 : ø12 One-touch fitting

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**Formulas**

\[ L_1 = 25n + 106 \] (Maximum 16 single wiring stations)

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2-Rc 1/2
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**Communication connector C2**
(M12 male thread)

- 2-Rc 1/8
- Pilot exhaust part

2n-Rc 1/4, 3/8, C8, C10, C12 <4(A), 2(B) port>

- Rc 3/8: 3/8" Female thread
- C8 : ø8 One-touch fitting
- C10 : ø10 One-touch fitting
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